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Sequine

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(54) **METHOD FOR IMPROVING SCAN TIME
AND SENSITIVITY IN TOUCH SENSITIVE
USER INTERFACE DEVICE**

(71) Applicant: **Parade Technologies, Ltd.**, Santa
Clara, CA (US)

(72) Inventor: **Ryan D. Sequine**, Seattle, WA (US)

(73) Assignee: **PARADE TECHNOLOGIES, LTD.**,
Santa Clara, CA (US)

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(58) **Field of Classification Search**
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See application file for complete search history.

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Primary Examiner — Vincent Q Nguyen

(74) *Attorney, Agent, or Firm* — Morgan, Lewis &
Bockius LLP

(57) **ABSTRACT**

System and method for optimizing the consumption of
power while maintaining performance in capacitive sensor
arrays. A limited sensing area is used to improve the update
rate and sensitivity of a row/column array of capacitive
sensors. According to one embodiment, a method is pro-
vided for scanning a plurality of capacitive sensors by:
detecting a stimulus in the field of capacitive sensors,
scanning the field of capacitive sensors to determine the
position of the stimulus. Once the position of the stimulus is
determined, a subsection of the field comprising window
corresponding to the position of the stimulus remains acti-
vated while the remaining sensors in the field are deacti-
vated.

22 Claims, 8 Drawing Sheets

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